

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/806, 477 A
Source: LEW
Date Processed by STIC: 01/03/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/806,477K

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | |
|----------|---|
| 1 _____ | <p>Wrapped Nucleics
Wrapped Aminos</p> <p>The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent “wrapping.”</p> |
| 2 _____ | <p>Invalid Line Length</p> <p>The rules require that a line not exceed 72 characters in length. This includes white spaces.</p> |
| 3 _____ | <p>Misaligned Amino
Numbering</p> <p>The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.</p> |
| 4 _____ | <p>Non-ASCII</p> <p>The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.</p> |
| 5 _____ | <p>Variable Length</p> <p>Sequence(s) _____ contain n’s or Xaa’s representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.</p> |
| 6 _____ | <p>PatentIn 2.0
“bug”</p> <p>A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.</p> |
| 7 _____ | <p>Skipped Sequences
(OLD RULES)</p> <p>Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
 This sequence is intentionally skipped</p> <p>Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to include the skipped sequences.</p> |
| 8 _____ | <p>Skipped Sequences
(NEW RULES)</p> <p>Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000</p> |
| 9 _____ | <p>Use of n’s or Xaa’s
(NEW RULES)</p> <p>Use of n’s and/or Xaa’s have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n’s or Xaa’s are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.</p> |
| 10 _____ | <p>Invalid <213>
Response</p> <p>Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence</p> |
| 11 _____ | <p>Use of <220></p> <p>Sequence(s) _____ missing the <220> “Feature” and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in <220> to <223> section.
 (See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)</p> |
| 12 _____ | <p>PatentIn 2.0
“bug”</p> <p>Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.</p> |
| 13 _____ | <p>Misuse of n/Xaa</p> <p>“n” can only represent a single nucleotide; “Xaa” can only represent a single amino acid</p> |



IFWO

RAW SEQUENCE LISTING

DATE: 01/03/2006

PATENT APPLICATION: US/10/806,477A

TIME: 11:25:56

Input Set : N:\SMITH\PTO.TST.txt

Output Set: N:\CRF4\01032006\J806477A.raw

3 <110> APPLICANT: UAB Research Foundation
 5 <120> TITLE OF INVENTION: RECEPTOR-MEDIATED UPTAKE OF
 6 PEPTIDES THAT BIND THE HUMAN
 7 TRANSFERRIN RECEPTOR
 9 <130> FILE REFERENCE: engler1
 11 <140> CURRENT APPLICATION NUMBER: 10/806,477A
 12 <141> CURRENT FILING DATE: 2004-03-23
 14 <160> NUMBER OF SEQ ID NOS: 14
 16 <170> SOFTWARE: PatentIn version 3.3
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 7
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Artificial
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: binding peptide
 26 <400> SEQUENCE: 1
 28 His Ala Ile Tyr Pro Arg His
 29 1 5
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 12
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Artificial
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: binding peptide
 40 <400> SEQUENCE: 2
 42 Thr His Arg Pro Pro Met Trp Ser Pro Val Trp Pro
 43 1 5 10
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 7
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Artificial
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: non-binding peptide
 54 <400> SEQUENCE: 3
 56 Ile Arg His Pro His Tyr Ala
 57 1 5
 60 <210> SEQ ID NO: 4
 61 <211> LENGTH: 12
 62 <212> TYPE: PRT
 63 <213> ORGANISM: Artificial
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: non-binding peptide
 68 <400> SEQUENCE: 4

Does Not Comply
Corrected Diskette Needed
(pg 1, 2, 3)

Invalid Response.
What is the source of
genetic Material?
Pls see Item # 11
on error Summary sheet

→ Same Error

RAW SEQUENCE LISTING

DATE: 01/03/2006

PATENT APPLICATION: US/10/806,477A

TIME: 11:25:56

Input Set : N:\SMITH\PTO.TST.txt

Output Set: N:\CRF4\01032006\J806477A.raw

```

70 Pro Trp Arg Pro Ser His Pro Val Trp Met Pro Thr
71 1          5          10
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 18
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: primer
82 <400> SEQUENCE: 5
83 tgggattttg ctaaaaac 18
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 22
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: primer
94 <400> SEQUENCE: 6
95 gtatgggatt ttgctaaaca ac 22
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 28
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: GFP primer
106 <400> SEQUENCE: 7
107 tctagatctg atgagtaaag gagaagaa 28
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 54
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
115 <220> FEATURE:
116 <223> OTHER INFORMATION: GFP primer
118 <400> SEQUENCE: 8
119 ttaaagcttt taatggcgcg gatagatcgc atgtttgtag agctcatcca tgcc 54
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 68
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: GFP primer
130 <400> SEQUENCE: 9
131 taaagctttt acggccacac cgggctccac atcggcgggc ggtgggtttt gtagagctca 60
133 tccatgcc 68
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 29
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial
141 <220> FEATURE:
142 <223> OTHER INFORMATION: sequence for binding peptide

```

7 Same Error

RAW SEQUENCE LISTING

DATE: 01/03/2006

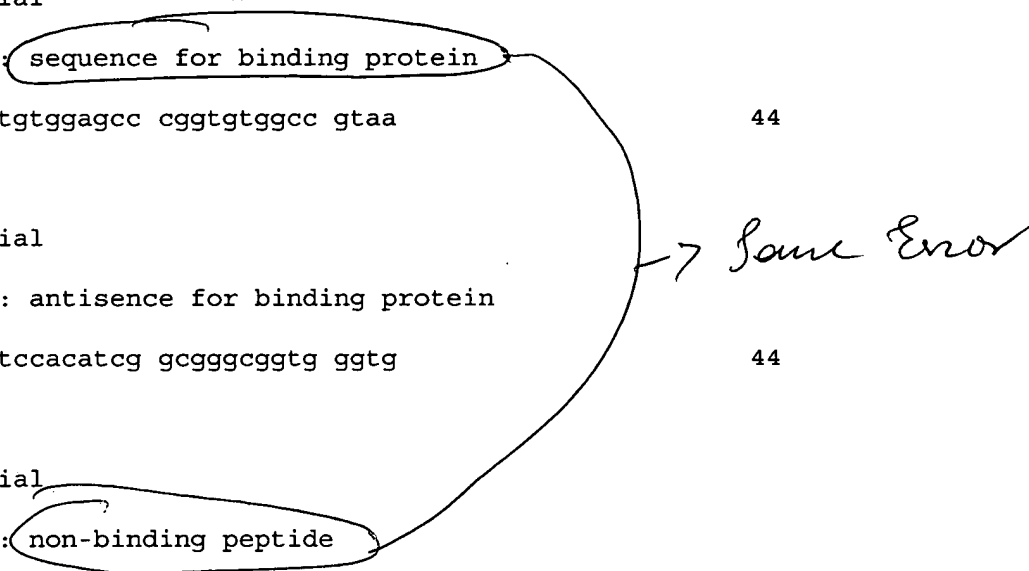
PATENT APPLICATION: US/10/806,477A

TIME: 11:25:56

Input Set : N:\SMITH\PTO.TST.txt

Output Set: N:\CRF4\01032006\J806477A.raw

144 <400> SEQUENCE: 10
145 gatcccatgc gatctatccg cgccattaa 29
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 29
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: antisense for binding peptide
156 <400> SEQUENCE: 11
157 gatcttaatg gcgcggatag atcgcatgg 29
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 44
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: sequence for binding protein
168 <400> SEQUENCE: 12
169 gatccaccca ccgcccgcgc atgtggagcc cgggtgtggcc gtaa 44
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 44
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: antisense for binding protein
180 <400> SEQUENCE: 13
181 gatctttacgg ccacaccggg ctccacatcg gcgggcggtg ggtg 44
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 7
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: non-binding peptide
192 <400> SEQUENCE: 14
194 His Ala Ile Tyr Pro Asn His
195 1 5



RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/03/2006
PATENT APPLICATION: US/10/806,477A TIME: 11:25:58

Input Set : N:\SMITH\PTO.TST.txt
Output Set: N:\CRF4\01032006\J806477A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14

VERIFICATION SUMMARY

DATE: 01/03/2006

PATENT APPLICATION: US/10/806,477A

TIME: 11:25:58

Input Set : N:\SMITH\PTO.TST.txt

Output Set: N:\CRF4\01032006\J806477A.raw